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RECENTLY PUBLISHED RESEARCH OF THE DNEPROPETROVSK INSTITUTE OF CHEMICAL TECHNOLOGY, USSR

"Synthesis of Ortho-Ditolylthiocarbazone and its Analytical Properties," I. B. Suprunovich, D. L. Shamshin, Dnepropetrovsk Inst Chem Tech

"Zhur Anal Khim" Vol 1, 1946, pp 198-205

Ortho-Ditolylthiocarbazone (I) was synthesized as outlined by Preund (1891) with some modifications. I reacts with heavy metals (Cu, Ag, Au, Zn, Cd, Hg, Pb, Co, and Ni) to form colored precipitates in a manner similar to dithizone (II). The color of the precipitates formed with I is of different hue and more intense than the colors formed with II. Toward Pb, Hg, and Zn, I is somewhat less sensitive than II. I is less soluble in alkalies and is more resistant to oxidizers than II. Using organic complex-forming compounds permits enhancing the selectivity of I. I is also more stable in storage.

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